

REMOTE TEMPERATURE MONITORING APPARATUS

ABSTRACT OF THE DISCLOSURE

A remote temperature monitoring apparatus includes a base-located energizing wave transmission/communication wave reception unit (e. g. located on a cooking stove) and a remotely-located, energizing-wave-powered, temperature-dependent communication wave emission unit (e. g. located on a cooking vessel). The base-located energizing wave transmission/communication wave reception unit transmits a series of probing energizing waves and receives 5 temperature-dependent resonant communication wave emissions. The remotely-located, energizing-wave-powered, temperature-dependent communication wave emission unit includes material which has a temperature-dependent communication wave emission characteristic, monitors temperature at the remote location, and transmits a 10 temperature-dependent resonant communication wave emission which is received by the base-located energizing wave transmission/communication wave reception unit which provides an 15 alarm signal when the monitored temperature at the remote location (the cooking vessel) is equal to or is beyond a 20 predetermined alarm temperature.